

Finding America in Deuteronomy: Navigating Political Transitions in the Twenty-First Century

MJ Broyde - 2026

... Whether you read the footnotes or skip them entirely, you will have a better understanding (we hope) when you reach the end of this book of why the book of Deuteronomy is still worthwhile reading for so many Americans. ...

Perspectives on Financial Modeling for Institutional Investors

A Chin, FJ Fabozzi, JKS Liew, A Rudin, I Yelnik - 2026

Perspectives on Financial Modeling for Institutional Investors offers a comprehensive, practitioner-driven exploration of how financial models are conceived, implemented, validated, and governed within modern investment ...

INTELLIGENT CYBER SYSTEMS AI-DRIVEN SECURITY, DIGITAL FORENSICS, AND ADAPTIVE DEFENSE

A Vishal, A Yadav - 2026

The digital transformation of society has fundamentally changed the nature of cybersecurity. Organizations across healthcare, finance, transportation, manufacturing, government, education, telecommunications, and critical ...

Teoria da medida e validade de instrumentos em saúde: artigo de reflexão

MV de Oliveira Lopes, VM da Silva - Online Brazilian Journal of Nursing, 2026

Objetivo: Discutir a relação entre teorias de mensuração, modelos psicométricos e validade, destacando implicações para instrumentos utilizados em saúde e enfermagem. Método: Artigo de reflexão teórico-conceitual, orientado por crítica da ...

[PDF] 単一ケースから意思決定集合へ: LLM を用いた反事実的ケース分析

星野雄介 - 武蔵野大学経営研究所紀要, 2026

本研究は, ケーススタディにおける意思決定の理解を拡張することを目的とし, 意思決定を単一の観測結果ではなく, 取り得た選択肢の集合として捉える枠組みを提示する. 従来のケーススタディでは, 実現した意思決定に基づく解釈が中心であり ...

[PDF] 未観測共通原因の存在下での因果探索アルゴリズムの研究

森西美光, モリニシヨシミツ - 2026

概要本博士論文は, 観察データからの因果推論における二つの主要課題に取り組む. 第一は, 未測定交絡が存在する状況下での因果構造探索, 特に因果の向きの推定である. この課題に対し, 本研究は非ガウス性と連続最適化を融合した新たな因果探索手法 「ABIC ...

[PDF] 二段階 L1 正則化回帰分析を用いた因果効果の推定法

南茂尚義, ナンモヒサヨシ - 2026

本論文では, 確率変数間の関係性がそれらの間の因果関係に従って線形構造因果モデル によって説明できることを仮定し, 処理変数の反応変数に対する因果効果を観測データから 推定する問題に注目する. さらにその問題において, 「因果効果の推定に必要なバックドア ...

[PDF] [Slaying the Hydra: Interaction-Aware Circuit Discovery in Language Models](#)

S Vaidyanathan, R Urbaniak, E Bunnapradist, M Naim... - arXiv preprint arXiv ..., 2026

Localizing behavior to individual components of a language model is a central goal of mechanistic interpretability. However, scoring components one at a time misses context-dependent effects: a primary component can inhibit the activation of a ...

[PDF] [Dimension Reduction for the Trivariate Normal Product Distribution: An Efficient Numerical Algorithm via Conditional Expectation](#)

D Tofighi – arXiv preprint arXiv:2610.05738, 2026

Statistical inference in sequential mediation models requires evaluating the cumulative distribution function (CDF) of the product of three normal coefficient estimators, an operation that entails integrating over a non-convex region with ...

[PDF] [Leveraging Symbolic Artificial Intelligence and Fuzzy Logic for Materials Science: A Review of Methods, Challenges, and Applications to Scarce and Imperfect ...](#)

A Amrani, MA Belloum, L Boudet, V Fouillard... - Advanced Engineering ..., 2026

This article explores the transformative potential of symbolic artificial intelligence (AI) in the field of materials science, particularly in leveraging experimental data. While state-of-the-art methods like neural networks and statistical models face challenges ...

[PDF] [Causally Fair Generation with Large Language Models](#)

P Okanovic, T Hoefler, D Plecko – arXiv preprint arXiv:2610.04444, 2026

Large language models (LLMs) are increasingly used to generate, complete, and transform information in settings where their outputs can shape consequential decisions, raising concerns about their impact on demographic disparities. In this ...

[PDF] [Reasoning Models Are Accurate but Unsound on Identification](#)

A Behnam, B Wang – arXiv preprint arXiv:2610.03519, 2026

A reasoning model asked whether a causal effect is recoverable from observational data can fail in two ways: it refuses an identifiable query or answers a nonidentifiable one. The latter is more consequential, as no observational data can validate the ...

[PDF] [Asterism: Exploring and Synthesizing Scattered Observations into Literature-Grounded Hypotheses and Theories](#)

JC Chang, M D'Arcy, AX Zhang, P Siangliulue, S Suh... - arXiv preprint arXiv ..., 2026

A theory draws many independent observations into one framework with novel hypotheses. A researcher building such a theory must synthesize observations scattered across many papers, each describing related concepts but often in different ...

[Towards causal reasoning in building performance modelling with multiple data sources: a viewpoint](#)

Y Pan, Z Xing, J Mun, JH Kim, S Kim, Y Jung, CS Park... - Journal of Building ..., 2026

Many building performance models learn statistical associations from historical data without explicitly representing underlying operating mechanisms. This can reduce reliability under changing controls or environmental conditions. This Viewpoint ...

[\[PDF\] Causal Representation Learning with Instantaneous and Lagged Relations via Nonstationarity](#)

T Yamada, H Morioka, Y Kawahara – [arXiv preprint arXiv:2610.03452](#), 2026

Causal representation learning for time-series data aims to identify latent states and their causal relations from observations. In this setting, an important challenge is to model both lagged causal relations across observation intervals and faster causal ...

[\[PDF\] DAG-CLIP: A DAG Learning Framework in the Presence of Latent Variables](#)

S Zhang, Y Chen, I Moustaki – [arXiv preprint arXiv:2610.06086](#), 2026

Learning directed acyclic graphs (DAGs) to uncover causal mechanisms has attracted substantial attention in machine learning. While most existing methods focus exclusively on observed variables, many variables of substantive interest are ...

[\[PDF\] Learning to Learn a Language](#)

L Carstens-Behrens, H Fröhlich – [arXiv preprint arXiv:2610.05879](#), 2026

We present the Prior-Fitted Language Model (PFLM), a 300M-parameter byte-level transformer pretrained only on samples from a synthetic non-linguistic prior. Given a prefix of real text, it learns to predict the language in context with frozen weights ...

[\[PDF\] Don't Judge an LLM Only by Its Activations: Discovering Suppressed Safety Features via Counterfactual Activation Potential](#)

S Swain, S Dutta – [arXiv preprint arXiv:2610.05541](#), 2026

Mechanistic interpretability has emerged as the primary means to understand safety behavior of LLMs. However, existing tools primarily focus on the activating neurons or features of a model. The role of the remaining large set of inactive components is ...

[\[PDF\] Formalizing the Moral Evaluation of Speech Acts: Truthfulness, Lies and Ethical Dilemmas](#)

B Icard, G Bourgne, J Bonnaventure, JG Ganascia – [arXiv preprint arXiv:2610.04747](#), 2026

In life-or-death situations, a benevolent lie may appear more moral than telling the truth. Yet such lies can backfire, producing unintended and sometimes fatal consequences. This tension, famously disputed by Kant and Constant in 1797 ...

[\[PDF\] Causal Lag Structure Discovery in Confounded Time Series via Orthogonalized Adaptive Estimation](#)

HK Tan, IN Zanoria, J Chen, H Lyu, M Cucuringu – [arXiv preprint arXiv:2610.05618](#), 2026

Finding which variables cause which others in multivariate time series, and at what lags, is central to science and policy, yet existing methods force a choice between flexible confounder adjustment, data-driven lag selection, and inference that controls ...

[\[PDF\] Block Disentanglement in CRL: Bridging Identifiability and Visual State Estimation](#)

E Acartürk, P Kulkarni, P Datta, K Shanmugam, B Varıcı... - [arXiv preprint arXiv ...](#), 2026

Causal representation learning (CRL) is the process of recovering causally-related latent variables from high-dimensional observations. As a label-free inference method, CRL is particularly attractive for applications where data labels are ...

[A new double prevention model of dualist interaction](#)

[B Middleton](#) - [Philosophical Studies](#), 2026

We precisify the causal exclusion argument against dualism in the language of causal models and argue that the precisified version puts significant pressure on almost all existing models of dualist interaction. We argue that the most promising ...

[\[PDF\] Boundaries Agree, Labels Do Not: Intra-Annotator Dynamics as a Kind of Training Data](#)

[M Shvets](#) - [arXiv preprint arXiv:2610.04370](#), 2026

Data quality now matters as much as compute for training language models. Much training data comes from human annotation of text, and interpretive annotation has no ground truth that could settle what is "accurate". Two lines of work respond to this ...

[\[PDF\] Sample Dependence-Aware Blind Source Separation for Linear Causal Discovery](#)

[CE Kumbasar](#), [EE Kumbasar](#), [T Adali](#) - [arXiv preprint arXiv:2610.06656](#), 2026

Causal discovery seeks to determine directional relationships among variables in complex systems, yet observational data alone generally do not identify causal direction. Complete identification therefore requires assumptions beyond linearity ...

[\[PDF\] CreateScore: Domain-Theory-Informed Bayesian Routing for LLM-Based CV Screening](#)

[R Roy](#) - [arXiv preprint arXiv:2610.02972](#), 2026

Large language models (LLMs) can support rubric-based screening of CVs, but applying a high-capability model to every candidate and criterion is costly. We present CreateScore, a domain-theory-informed Bayesian network for criterion-level ...

[\[PDF\] From Autoregressive Generation to Decision Readouts under Exogenous Chance](#)

[MJ Kim](#) - 2026

Autoregressive models (ARMs) and energy-based models (EBMs) are equivalent in function space, with the autoregressive factorization obtained by a soft Bellman recursion. We ask what this equivalence means when a sequence alternates ...

[\[PDF\] 家計を投資から遠ざけるものは何か: 時間選好・金融リテラシー・投資イメージの役割と政策的含意](#)

[関口麻衣子](#), [副島豊](#) - [人工知能学会第二種研究会資料](#), 2026

抄録 損失が生じない投資機会が目の前にあっても、なぜ人は投資しないのか。SBI 金融経済研究所が実施しているアンケート調査では、仮想的投資商品を用いてリスク回避度の把握(確実性等価の計測)を行っている。最低でも元本が保証される選択肢があるにも ...

[\[HTML\] Causal Inference in Mediation Studies When Using Psychological States as Mediators](#)

[G Zhu](#), [Y Shou](#), [M Smithson](#)

The growing interest in the underlying causal mechanisms of phenomena has led to the widespread application of mediation models in social science research. Researchers usually employ regression-based approaches (such as Baron and ...

That Which We Have Seen

I User, T Follow

That Which We Have Seen - a story by Texun - Story Write LoginRegisterHelp StoriesWrite Groups All groups Free writing courses Famous poetry classics Forums: Poet's • Suggestions My active groups see all ContestsStore Edit Report Content Ignore ...

[PDF] DATA SCIENCE FOR BUSINESS

M Kumar - 2026

This volume is dedicated to demystifying the field of data science for the business professional. It is designed not as a comprehensive technical manual for aspiring data scientists, but rather as a strategic guide for leaders, managers, and decision-makers ...

SegMIL: Long-Term Time-Series Data Classification for Industrial AI Applications

C Jung, H Jung - IEEE Transactions on Industrial Informatics, 2026

Long-horizon multivariate time-series often contain sparse discriminative patterns, where only a small portion of the sequence determines the final outcome while most observations remain nominal. Under such conditions, conventional sequence ...

CG-Slice: A Causally-Weighted Stackelberg Game for Multi-Tenant Network Slicing in 6G-Oriented Edge IoT

J Lin, S Yan, S Zhang, Y Sun, X Lin, J Gu, Y Yang... - IEEE Internet of Things ..., 2026

Multi-tenant network slicing in 6G-oriented edge Internet-of-Things systems must coordinate self-interested tenants while meeting service-level agreements (SLAs) under non-stationary traffic, interference, and jamming. Existing deep reinforcement ...

Causal analysis for risk management of weather index insurance portfolios under climate change

CD Valencia, CF Valencia - Stochastic Environmental Research and Risk ..., 2026

Climate-related risks pose systemic challenges for insurance and reinsurance companies, exposing protection gaps and threatening financial stability. Parametric insurance provides a mechanism for transferring these risks through index-based ...

[PDF] Packet-Level Causal Certification of Tail-Latency and Reliability Control in O-RAN Slicing

JGP De Bittencourt, FG De Oliveira, EJ Pacheco... - IEEE Transactions on ..., 2026

An O-RAN slice controller holds two levers, the resource-block budget and the scheduling discipline, and reads an aggregate proxy that can pass a slice dropping packets or overrunning its latency bound. A lever that correlates with a key ...

[PDF] Textual Identifiability and Anchored Semantics for Evaluating World-Model Claims in Large Language Models

L Zihang, Y Jinyu - IEEE Access, 2026

Claims that large language models (LLMs) learn world models often conflate decodability, causal employment, and external anchoring. This Theory article separates these claims and makes their evidential requirements computable. A text ...

[\[PDF\] Identifiable World Models from Pretrained Diffusion Representations](#)

R Sandilya, C Liston, L Grocenick – arXiv preprint arXiv:2610.07028, 2026

Diffusion-based world models can generate and predict trajectories in high-dimensional dynamical systems, but predictive accuracy does not imply that their latent coordinates recover the underlying state variables or causal interactions. We ...

[\[PDF\] What Should We Measure Next? Finding Identification Strategies by Refining Mechanisms](#)

M Väänänen, F Cui, C Cinelli, S Tikka – arXiv preprint arXiv:2610.08092, 2026

Canonical approaches in causal inference treat model specification as fixed, assuming that researchers directly translate all relevant domain knowledge into a causal model, which can then be used to deduce its logical implications. Yet, in ...

[\[PDF\] ProximalFM: Amortized Proximal Causal Inference under Hidden Confounding](#)

C Muller, A Kharel, A Luedtke, C Park, ET Tchetgen... - arXiv preprint arXiv ..., 2026

Standard causal identification methods often assume no unmeasured confounding and can fail when relevant confounders are unobserved. Proximal causal inference instead uses proxy variables to identify effects under hidden confounding. However ...

[\[PDF\] BEYOND ACCESS: EXPLAINING THE INTENTION-BEHAVIOUR GAP IN LIGHT RAIL TRANSIT USE WITHIN TRANSIT-ORIENTED DEVELOPMENTS](#)

N Nathalia, IDMF Septanaya – PLANNING MALAYSIA, 2026

Despite the proximity of apartment complexes to Jabodebek Light Rail Transit (LRT) stations, ridership within Jakarta's Transit-Oriented Development (TOD) areas remains below expectations. This study applies the Theory of Planned Behaviour ...

[Making Responsibility Analysis Precise](#)

M Dalla Preda, L Canaia – International Static Analysis Symposium, 2026

A definition of responsibility analysis based on program semantics and abstract interpretation was introduced in [1]. One of the key distinguishing features of responsibility analysis, compared to existing notions of causality and actual causality ...

[\[PDF\] Explainable Rule Mining of Ipv6 Extension-Header Presence Patterns from Paired-Vantage Captures](#)

P Sinha, N Kekatos, S Basagiannis, AAB da Costa... - arXiv preprint arXiv ..., 2026

Ipv6 extension headers (Ehs), such as fragmentation, segment routing, and in-situ telemetry, are operationally important yet widely dropped in transit, and characterizing their behaviour from packet captures is a recurring measurement ...

[Результативность пронаталистской политики в России, 2007-2023 гг.: причинно-следственный анализ рождаемости реальных поколений методами ...](#)

ПА Кишенин, АИ Атаманенко – Демографическое обозрение, 2026

В исследовании представлена комплексная оценка результативности ключевых инструментов российской пронаталистской демографической политики (федерального материнского капитала и субсидий в 450 тыс. Рублей на ...

[\[PDF\] sHAIL-Causal: A Sequential Staircase Procedure for Invariant Causal Predictor Discovery](#)

E FokouÅŠ – arXiv preprint arXiv:2610.07057, 2026

We introduce sHAIL-Causal, the causal specialization of the Saturated Hierarchical Atomic Incremental Learning (sHAIL) paradigm: a sequential staircase procedure that ascends a nested hierarchy of hypothesis classes $H_0 < H_1 < \dots < H_K$ once a ...

[\[PDF\] Intelligent Condition Monitoring of Industrial Plants: Addressing Data Scarcity and Uncertainty](#)

M Ahang – 2026

Reliable fault detection and diagnosis in industrial systems is complicated by a persistent gap between the idealized conditions assumed by most machine learning methods and the realities of industrial deployment: fault samples are scarce ...

[\[PDF\] Direct input variables: rethinking the limits of the extended mind hypothesis within predictive processing](#)

T Catalin – 2026

Predictive Processing theories and the Free Energy Principle (FEP) face a dilemma when addressing the problem raised by the Extended Mind Hypothesis (EMH): on the one hand, few can deny that some objects, such as phones, computers, or other ...

[\[PDF\] Generative World Models for Financial Risk Propagation and Counterfactual Fraud Analysis in Enterprise Networks](#)

N Hu, J Xiao – 2026

Financial fraud and enterprise risk rarely emerge as independent node-level events: liquidity stress, suspicious payments, ownership dependencies, guarantee relations, and transaction chains create interacting pathways through which local shocks may ...

[THE BEAUTY OF SIMPLE LINES](#)

A NABOKIN – 2026

The Beauty of Simple Lines is a book about systems thinking and a methodology for designing effective, resilient, and scalable business systems. The central idea is that simplicity is not a system's starting state but the result of deep work with complexity ...

[\[PDF\] Course Analytics without Turning Forum Silence into Neutrality](#)

E Cooper, N Richardson, L Cox – Inclusive Growth and Governance Quarterly, 2026

In autonomous warehouse delivery, a convincing output can still be invalid when silent learners counted as emotionally neutral. This literature-based conceptual analysis does not report a new experiment. The starting source uses hierarchical ...

[Надежная оценка эффектов: A/B-тесты и причинный анализ. Методическое пособие](#)

ИБ Петров – 2026

Пособие посвящено оценке эффектов в продуктовой и бизнес-аналитике с применением A/B-тестирования, CUPED, Causal Impact и Difference-in-Differences. Рассматриваются выбор метода, диагностика, интерпретация и ...

[\[PDF\] The Wheel That Unwinds the Wheel: The Abhidhamma as Executable Process-Specification—Buddhist Cognitive Psychology as a Process Model for AI Alignment ...](#)

T Ly – 2026

We read the Abhidhamma, the analytical third division of the Theravāda Buddhist canon, as a process specification of mind: typed, momentary mental events arising one at a time under twenty-four typed conditioning relations, with ethical class ...

[Artificial Intelligence: An Introduction to Humanity](#)

H Vicci – 2026

This book offers a lucid, humane portrait of artificial intelligence as it slips from laboratory myth into the grain of daily life. Moving through health, education, work, finance, government, and the home, it shows how intelligent systems widen ...

[EAGLE-RC: An Explainable Adaptive Causal Graph Learning Approach with Intervention for Root Cause Localization](#)

SR Paidi, D Mabuni - ... International Conference on Emerging Techniques in ..., 2026

Modern software and data-intensive systems often experience intermittent failures caused by runtime nondeterminism, such as race conditions and timing variability. Identifying the true source of these failures remains a challenging task because ...

[A meta-analytic review of the associations between patterning and academic achievement.](#)

GA Borriello, T Zhang, VW Wang, P Peng, ER Fyfe – Psychological Bulletin, 2026

This study aimed to determine the magnitude of the associations between patterning skills and academic achievement. We conducted a meta-analysis of 71 studies with 82 independent samples and more than 16,500 participants. Primary results ...

[Towards a Causally-inspired Evolving World Model for Vision-and-Language Navigation in Continuous Environments](#)

X Yao, J Gao, C Xu – IEEE Transactions on Pattern Analysis and Machine ..., 2026

Vision-and-Language Navigation in Continuous Environments (VLN-CE) has emerged as a pivotal challenge in Embodied AI, requiring an agent to navigate 3D spaces guided by natural language instructions. Drawing inspiration from human ...

[\[PDF\] WOVEN: Weaving Visual World Modeling into Multimodal LLMs](#)

Z Fan, Y Zhang, M Deng, K Wang, Q Wang, C Chen... - arXiv preprint arXiv ..., 2026

Multimodal large language models (MLLMs) struggle with spatial, embodied, physical, and temporal reasoning. We hypothesize that these failures reflect a shared deficit in visual transition reasoning, and test whether this capability can serve as a ...

[A Confounder-Aware Representation Learning Framework for Alzheimer's Disease Classification](#)

Y Chen, J Chen, J Xu, H Yu, B Wang, C Li, Y Zhang... - International Conference on ..., 2026

Alzheimer's disease (AD) is the most prevalent neurodegenerative disorder, and current treatments cannot reverse its progression, making early diagnosis and intervention essential. Deep learning methods have shown promise for diagnosing ...

Causal identification of multi-indicator net effects of preventive maintenance for asphalt pavement based on double machine learning

T Zhao, W Zhang, H Zhang, B Ding, H Zhang – *International Journal of Pavement ...*, 2026

Conventional evaluations of pavement preventive maintenance may conflate treatment effects with pretreatment differences under non-random assignment. This study develops and applies a causal evaluation framework to 2020–2025 segment ...

NeuroCause-Fog: Distributed Causal Edge Intelligence for Autonomous Schizophrenia Symptom Trajectory Forecasting Networks

ZC Yue, ZH Chen, SJ Liu – *IEEE Internet of Things Journal*, 2026

Distributed fog-IoT networks are reshaping remote psychiatric care by enabling continuous passive sensing of behavioral biomarkers across homes, clinics, and community sites. Yet existing federated models for schizophrenia monitoring rely on ...

[PDF] Symmetry-Informed Causal Partial Identification

U Akbar, Z Zaidi, N Kilbertus, K Muandet, B Dai – *arXiv preprint arXiv:2610.09230*, 2026

Partial identification (PI) entails estimating bounds on causal effects by encoding different assumptions on data generation as a constrained optimization problem. Such bounds can suffice to inform policy decisions even if the causal effect itself is ...

[PDF] Score-Based Methods for Selecting Direct Causes in Reweighted Distributions

JM Chen, I Shpitser – *arXiv preprint arXiv:2610.09100*, 2026

Scoring methods based on the Bayesian information criterion (BIC) are commonly used for model selection tasks such as choosing features in a regression model or learning directed acyclic graphs from data. In certain model classes, model selection ...

[PDF] Causal confusion in quantum systems: distinguishing direct cause and common cause

K Tolotti, R Blank-Matthews, AJ Parzygnat – *arXiv preprint arXiv:2610.10004*, 2026

The joint expectation values of quantum observables measured by two parties typically depend on the causal structure of the measurement protocol. The two causal structures we investigate here are the direct-cause scenario, in which a single ...

[PDF] Cognitive Schemas, Laws and Tasks

A Jakovác, A Telcs – *arXiv preprint arXiv:2610.09495*, 2026

This paper asks how explicit representations can support reusable cognitive schemas in knowledge-based problem solving. We develop a structural framework in which schemas are organized by the information and relations required for their use ...

[PDF] Directional Evidence Guided Search-Space Reduction for Exact DAG Learning

UJ Islam, A Elrefaey, R Pan – *arXiv preprint arXiv:2610.09136*, 2026

Learning a directed acyclic graph (DAG) from observational data is a challenging combinatorial problem due to the exponential growth in the number of candidate parent-set configurations. Existing exact score-based methods often require ...

[\[PDF\] A Structural Theory of Cognitive Representation and Problem Solving, Contexts, Invariance, and the Knowledge Space](#)

[A Jakovác, A Telcs – arXiv preprint arXiv:2610.12306, 2026](#)

Learning and problem solving depend critically on the structure of internal representations. While many modern data-driven artificial systems achieve strong predictive performance, their learned representations often lack explicit structure for ...

[\[PDF\] Diffusive Market Impact: A Consistent Microfoundation](#)

[JF Bonart – arXiv preprint arXiv:2610.11691, 2026](#)

Structural price diffusivity explains many empirical regularities of market impact including the “square-root law” and its crossover to a linear regime for low trading rates \citep {bonart2026diffusive}. One of its central predictions is that an information ...

[\[HTML\] Evil and world-view description: the Christian case](#)

[L Snellman – International Journal of Philosophy and Theology, 2026](#)

The article develops a method of world-view description for studying the problem of evil. World-views are defined as (sign-system Σ , interpretative practices I , moral framework M). They include a belief-system about the nature of the world and the ...

[Imagining Success: Identifying and Recovering from Unknown Anomalies using Simulated Causal Interventions](#)

[Y Warsame, C Street, M Mansouri – 2026 IEEE 22nd International Conference on ..., 2026](#)

To achieve high levels of autonomy, robotic systems must be able to handle unknown anomalies that occur during execution. Unknown anomalies have never been seen by the robot or system and so no known recovery behavior exists ...

[Causal Reinforcement Learning \(CRL\) for Adaptive Resource Management in Edge–Cloud Systems: A Performance-Driven Evaluation](#)

[E Johri – 2026 IEEE 5th World Conference on Applied ..., 2026](#)

Standard Reinforcement Learning techniques break down to address some very common conditions in edge computing like new workload types, network fluctuations and other unseen scenarios. These techniques rely on correlating to traditional ...

[\[PDF\] Deep Generative Causal Inference](#)

[L Lorch – 2026](#)

Causal inference enables predicting the effects of interventions, such as treatments, policies, and perturbations, across many scientific disciplines. Analogous to statistical learning, it relies on regularities in the data-generating process to infer ...

[The Birth and Growth of a Public Service](#)

[G Garzarelli, L Keeton, AA Siteo – Co-production, Institutions, and Governance ..., 2026](#)

The “taxibus,” also known as “shared taxi” and as “minibus taxi” is a market-based South African system of public transport. It materialized informally (eg, Hodgson 2025) as a private (eg, Coase 1960; Leeson 2009), community-level (E. Ostrom, eg ...

[\[PDF\] Communication Requires Separation: The Causal Structure of Cell Signalling](#)

W Rorot – 2026

Biologists distinguish a class of causal relations within and between cells as signalling, and treat the criteria for doing so as self-evident. The paper analyses the concept to supply those criteria. It is argued that signalling requires detachment ...

[\[PDF\] Global Constraint-Based Causal Structure Learning with Streaming Features](#)

JM De Miguel, C Bielza, P Larrañaga – 2026

With the ever-growing dimensionality of data and the rapid development of new data mining techniques, causal discovery faces both new challenges and opportunities. One such challenge is the streaming features setting, in which new features arrive ...

[\[PDF\] Advancing Personalized, Engaging Learning and Assessment in the AI Era](#)

X Hou – 2026

Conventional learning environments often fail to engage students or meet their varied needs. Emerging technologies offer opportunities to foster deeper engagement and personalization in education at scale. This dissertation advances ...

[\[PDF\] Censored Bivariate Time-to-Event Outcomes: Monotonic Bivariate Survival Estimation, Multiple Imputation and Applications](#)

D Angulo – 2026

Bivariate time-to-event outcomes commonly arise in research when patients are at risk for two clinically meaningful events. For example, the Efficacy and Safety of Triple Therapy in Obstructive Lung Disease Trial evaluated inhaled triple therapy ...

[Modeling internalizing symptoms and substance use comorbidity using causal network methodology](#)

M Näther, BD Ostafin, LJ Waldorp, RW Wiers... - *Journal of Affective ...*, 2026

The cooccurrence of internalizing and substance use disorders can be explained from several perspectives, yet most are modeled in isolation and limited to correlational evidence. Advancements on two common etiological perspectives—i) ...

[\[PDF\] From Correlation to Causation: Advances, Challenges and Prospects of Causal Inference in Climate Attribution Research](#)

常欢, 方苗 – *Advances in Earth Science*, 2026

Climate attribution aims to identify and quantify the drivers of climate change and extreme events, providing a scientific basis for understanding climate-system evolution, assessing anthropogenic influences, and supporting climate adaptation ...

[\[PDF\] A Novel Neural Pressure Paradigm for Conceptual Abstraction in Artificial Machine Intelligence](#)

V Sharma – 2026

Modern artificial intelligence systems can generate fluent explanations, write code, summarize technical literature, and interact with scientific tools. However, abstractions that support these behaviors are usually not available as explicit ...

[PDF] 从关联到因果: 因果推断在气候归因研究中的进展, 挑战与前瞻

常欢, 方苗 – 地球科学进展, 2026

气候归因旨在识别并量化气候变化及极端事件背后的驱动因素, 是理解气候系统演变 机制, 评估人类活动影响以及进行气候适应与减缓政策的研究基础. 回归分析, 相关分析和最优指纹法等传统方法, 在识别人为强迫对全球及区域气候变化贡献方面已 ...

[PDF] Transport-Based Methods for Inference and Generation with Graphical Structure

Y Xu – 2026

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